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February 2, 2007

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Art Unit 1644

Attn: Mail Stop Amendment

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U.S. Utility Patent Appl. No.: 10/563,944; § 371 Date: May 31, 2006

(U.S. Nat'l Phase of Int'l Appl. No. PCT/EP04/07679; I.A. Date: July 12, 2004)

For: Packaged Virus-Like Particles
Inventors: Martin F. BACHMANN et al.
Our Ref: 1700.0670000/BJD/WBC

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. Information Disclosure Statement Filing Under 37 C.F.R. § 1.97(b);
- 2. Form PTO/SB/08A (2 pages) citing twenty-eight (28) documents (US1-US15 and FP1-FP13);
- 3. Copy of thirteen (13) cited documents (FP1-FP13);
- 4. Form PTO/SB/08B (7 pages) citing fifty-eight (58) documents (NPL1-NPL58);
- 5. Copy of fifty-eight (58) cited documents (NPL1-NPL58); and
- 6. One (1) return postcard.

In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Sterne, Kessler, Goldstein & Fox PLLC. : 1100 New York Avenue, NW : Washington, DC 20005 : 202.371.2600 f 202.371.2540 : www.skgf.com

Commissioner for Patents February 2, 2007 Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

Sterne, Kessler, Goldstein & Fox P.L.L.C.

Brian J. Del Buono Attorney for Applicants Registration No. 42,473

BJD/WBC:cpn Enclosures 613490_1.DOC

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ubstitute for form 1449A/PTO Complete if Known 10/563,944 (U.S. Nat'l Phase of Int'l Application Number Appl. No. PCT/EP04/07679) INFORMATION DISCLOSURE May 31, 2006 §371 Date STATEMENT BY APPLICANT First Named Inventor BACHMANN, Martin F. (Use as many sheets as necessary) Art Unit 1644 **Examiner Name** To Be Assigned Sheet 1 of 2 Attorney Docket Number 1700.0670000/BJD/WBC

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Examiner	Cite	T	U.S. PATENT DO Publication Date	Name of Patentee or	Dance Calaman Lines	
Initials*	No.1	Document Number	MM-DD-YYYY	Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Number-Kind Code ^{2 (If Known)}	IMM-DB-1111	Applicant of Cited Document	or Relevant Figures Appea	
	US1	4,912,094	03/27/1990	Myers et al.		
	US2	5,939,598	08/17/1999	Kucherlapati et al.		
	US3	6,194,388	02/27/2001	Krieg et al.		
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Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures	
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	FP1	WO 98/50071 A1	11/12/1998	Chiron Corporation	· ·	
	FP2	WO 99/29723 A1	06/17/1999	Pentamer Pharmaceuticals		
	FP3	WO 00/23955 A1	04/27/2000	The Government of the United States of America		
	FP4	WO 00/32227 A2	06/08/2000	Cytos Biotechnology AG		
	FP5	WO 00/37610 A2	06/29/2000	Boyce Thompson Institute for Plant Research at Cornell		
	FP6	WO 00/39304 A2	07/06/2000	Chiron Corporation		
	FP7	WO 00/62800 A2	10/26/2000	Smithkline Beecham Biologicals SA		
	FP8	WO 01/22972 A2	04/05/2001	University of Iowa Research Foundation; Coley Pharmaceutical GMBH		

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INFO	28 <i>8</i> 28 2	ION F	Neci Ocup	Application Number	10/563,944 (U.S. Nat'l Phase of Int'l Appl. No. PCT/EP04/07679)		
			DISCLOSUR	- 1 03/1 Date	May 31, 2006		
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	(Use as many sheets as necessary)			Art Unit	1644		
				Examiner Name	To Be Assigned		
Sheet	2	of	2	Attorney Docket Number	1700.0670000/BJD/WBC		

	FP9	WO 01/56603 A1	08/09/2001	Tanox, Inc.		L
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Initials*	No. ¹	Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY	Applicant of Cited Document	Lines, Where Relevant Passages or Relevant Figures Appear	,
	FP10	WO 01/85208 A2	11/15/2001	Cytos Biotechnology AG	^^	
	FP11	WO 02/10416 A1	02/07/2002	The Crown in the Right of the Queensland Department of Health		
_	FP12	WO 02/056905 A2	07/25/2002	Cytos Biotechnology AG		
	FP13	WO 03/024481 A2	03/27/2003	Cytos Biotechnology AG		
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Substitute for form 1449/PTO	Complete if Known		
INFORMATION DISCLOSURE	Application Number	10/563,944 (U.S. Nat'l Phase of Int'l Appl. No. PCT/EP04/07679)	
STATEMENT BY APPLICANT	§371 Filing Date	May 31, 2006	
(Use as many sheets as necessary)	First Named Inventor	BACHMANN, Martin F.	
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	Examiner Name	To Be Assigned	
Sheet 1 of 7	Attorney Docket Number	1700.0670000/BJD/WBC	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T ²
	NPL1	Abreu, M.T., and Arditi, M. J., "Innate Immunity and Toll-like Receptors: Clinical Implications of Basic Science Research," <i>Pediatrics</i> 144:421-9, American Academy of Pediatrics (April 2004)	
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INFORM	1ATION	DIS	CLOSURE	Application Number	10/563,944 (U.S. Nat'l Phase of Int'l Appl. No. PCT/EP04/07679)		
			PLICANT	§371 Filing Date	May 31, 2006		
			is necessary)	First Named Inventor	BACHMANN, Martin F.		
	`		**	Art Unit	1644		
				Examiner Name	To Be Assigned		
Sheet	2	of	7	Attorney Docket Number	1700.0670000/BJD/WBC		

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	NPL10	Clarke, A.H., et al., "Murine Allergic Respiratory Responses to the Major House Dust Mite Allergen Der p 1," Int. Arch. Allergy Immunol. 120:126-134, Karger (1999)	
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Signature	Considered	

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			PLICANT	§371 Filing Date	May 31, 2006	
-	(Use as many			First Named Inventor	BACHMANN, Martin F.	
	,		,	Art Unit	1644	
				Examiner Name	To Be Assigned	
Sheet	3	of	7	Attorney Docket Number	1700.0670000/BJD/WBC	

		NON PATENT LITERATURE DOCUMENTS	
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	NPL19	Gerber, S., et al., "Human Papillomavirus Virus-Like Particles Are Efficient Oral Immunogens when Coadministered with Escherichia coli Heat-Labile Enterotoxin Mutant R192G or CpG DNA," J. Virol. 75:4752-60, American Society for Microbiology (2001)	
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	NPL27	Justice, J.P., et al., "Ragweed-induced expression of GATA-3, IL-4, and IL-5 by eosinophils in the lungs of allergic C57BL/6J mice," Am. J. Physiol. Lung Cell Mol. Physiol. 282:L302-9, The American Physiological Society (February 2002)	

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	NPL28	Kaisho, T., and Akira, S., "Toll-like receptors as adjuvant receptors," <i>Biochim. Biophys. Acta 1589</i> :1-13, Elsevier Pub. Co. (February 2002)	
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INFORM	MATION	DISC	CLOSURE	Application Number	10/563,944 (U.S. Nat'l Phase of Int'l Appl. No. PCT/EP04/07679)		
			PLICANT	§371 Filing Date	May 31, 2006		
SIMIL	(Use as many)			First Named Inventor	BACHMANN, Martin F.		
	(- · · · · · · · · · · · · · · · · · · ·	Art Unit	1644		
,				Examiner Name	To Be Assigned		
Sheet	5	of	7	Attorney Docket Number	1700.0670000/BJD/WBC		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published	T ²
	NPL37	Persing, D.H., et al., "Taking toll: lipid A mimetics as adjuvants and immunomodulators," Trends Microbiol. 10:32-37, Elsevier Trends Journals (October 2002)	
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	(Use as many			First Named Inventor	BACHMANN, Martin F.		
			,	Art Unit	1644		
				Examiner Name	To Be Assigned		
Sheet	6	of	7	Attorney Docket Number	1700.0670000/BJD/WBC		

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	NPL46	Shampain, M.P., et al., "An Animal Model of Late Pulmonary Responses to Alternaria Challenge," Am. Rev. Respir. Dis. 126:493-98, American Lung Association (1982)	
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INFORMA	ΓΙΟΝ	DISC	CLOSURE	Application Number	10/563,944 (U.S. Nat'l Phase of Int'l Appl. No. PCT/EP04/07679)
STATEME	NT BY	AP	PLICANT	§371 Filing Date	May 31, 2006
			s necessary)	First Named Inventor	BACHMANN, Martin F.
,			• ,	Art Unit	1644
				Examiner Name	To Be Assigned
Sheet	7	of	7	Attorney Docket Number	1700.0670000/BJD/WBC

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NPL55	Van Schooten, W.C., et al., "Biological properties of dendritic cells: implications to their use in the treatment of cancer," Molecular Medicine Today 3:254-60, Elsevier Trends Journals (1997)	
NPL56	Yamamoto, S., et al., "The discovery of immunostimulatory DNA sequence," Springer Semin. Immunopathol. 22:11-19, Springer Verlag (2000)	
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	No.¹ NPL55 NPL56 NPL57	Cite No. Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume number, publisher, city and/or country where published Van Schooten, W.C., et al., "Biological properties of dendritic cells: implications to their use in the treatment of cancer," Molecular Medicine Today 3:254-60, Elsevier Trends Journals (1997) Yamamoto, S., et al., "The discovery of immunostimulatory DNA sequence," Springer Semin. Immunopathol. 22:11-19, Springer Verlag (2000) Yuan, T.T., et al., "Subtype-Independent Immature Secretion and Subtype-Dependent Replication Deficiency of a Highly Frequent, Naturally Occurring Mutation of Human Hepatitis B Virus Core Antigen," J. Virol. 73:10122-8, American Society for Microbiology (1999) Zhang, D., et al., "A Toll-like Receptor That Prevents Infection by Uropathogenic Bacteria," Science 303:1522-6, American Association for the Advancement of Science

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